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volumes on birds and Crustacea being apparently nearly completed, the Molluscs and Radiates having been published several years ago. The work is a compilation from numerous memoirs and papers, being encyclopædic in its nature, and the most authoritative, complete general account of the different classes and orders of the animal kingdom to be found. The plates are filled with figures, chiefly anatomical and developmental, from the memoirs and works of the leading authors, and are, in general, excellent copies. The present work on Crustacea is done in Dr. Gerstæcker's best style. The last part is taken up with the Trilobites, which are treated of with great thoroughness and copiousness of illustration. Though a somewhat expensive work, it is invaluable as a work of reference, and we call attention to it because of its great usefulness to any one living out of reach of extended libraries.

BAIRD'S ANNUAL RECORD OF SCIENCE AND INDUSTRY.¹—This is one of a series of eight yearly volumes which fills a place in popular scientific literature not occupied, and will prove to be a very useful compendium of annual progress in science in Europe and this country. Reference to the index, which by the way is an admirable one, will show how many items are inserted in this well packed book, and just how fruitful the year 1878 was in scientific discoveries, whether of pure or applied science. The number who have assisted the editor are thirteen. This volume is of the same nature as the one issued for 1877, having a less number of pages than those from 1871 to 1876, owing to the omission of abstracts of scientific papers, for which it was impossible to find sufficient space. We have noticed the series in former years, and now recommend it as reliable, condensed, most useful and, in short, indispensable to teachers and editors as well as to the general reader.

RECENT BOOKS AND PAMPHLETS.—Notice of Recent Additions to the Marine Fauna of the Eastern Coast of North America, No. 5. By A. E. Verrill. (Brief Contributions to Zoölogy from the Museum of Yale College, No. XLII.) (From the American Journal of Science and Arts, Vol. XVII, June, 1879.) 8vo, pp. 3.

Notice of Recent Additions to the Marine Fauna of the Eastern Coast of North America, No. 6. By A. E. Verrill. (Brief Contributions to Zoölogy from the Museum of Yale College, No. XLIII.) (From the American Journal of Science and Arts, Vol. XVIII, July, 1879.) 8vo, pp. 3.

Preliminary Check-list of the Marine Invertebrata of the Atlantic Coast, from Cape Cod to the Gulf of St. Lawrence. By A. E. Verrill. (Prepared for the U. S. Commission of Fish and Fisheries.) (Author's edition, June, 1879.) 8vo, pp. 32.

Report of Work of the Agricultural Experiment Station, Middletown, Conn., 1877-8. By W. O. Atwater. (Taken, in part, from the Report of the Secretary of the Conn. Board of Agriculture for 1878.) 8vo, pp. 172.

The North American Entomologist. No. 1, Vol. 1, July, 1879. Editor, A. R. Grote. Publishers, Reinedse, Zesch & Baltz, 500 Main street, Buffalo, N. Y. 8vo, pp. 8, 1 plate.

¹ *Annual Record of Science and Industry for 1878*. Edited by SPENCER F. BAIRD, with the assistance of eminent men of science. New York, Harper & Brothers, 1879. 12mo, pp. 715.

Mollusca of H. M. S. *Challenger* Expedition, Parts I, II and III. By the Rev. R. Boog Watson. (Ext. from the Linnæan Society's Journal—Zoölogy, Vol. XLV.) London, 1879. 8vo, pp. 39.

Outlines of Field-Geology. By Archibald Geikie, LL.D., F.R.S. 2d edition, revised and enlarged, illustrated. 12mo, pp. 216. Macmillan & Co. 1879. From the author.

Archæology and Ethnology. (Schedule of plans for the arrangement of material in the International Permanent Exhibition in Philadelphia.) By E. A. Barber. pp. 3. 1879. From the author.

Drainage Map, showing a portion of Wyoming, Idaho and Utah. Primary triangulation, by A. D. Wilson. Topography, by Henry Gannett, G. B. Chittenden, G. R. Bechler and F. A. Clark. (Depart. of the Interior, U. S. Geol. and Geog. Survey of the Territories, F. V. Hayden, U. S. Geologist-in-charge.) From the Department, Washington, 1879.

Catalogue of a collection of birds obtained in Guadeloupe for the Smithsonian Institution, by Mr. Fred. A. Ober. By George N. Lawrence. (Ext. Proc. U. S. National Museum, April 22, 1879.) 8vo, pp. 449-462, Washington. From the author.

A General Catalogue of the birds noted from the islands of the Lesser Antilles, visited by Mr. Fred. A. Ober, with a table showing their distribution, and those found in the United States. By Geo. N. Lawrence. (Ext. Proc. U. S. National Mus., 1879.) 8vo, pp. 3. Washington. From the author.

Colonial Museum and Geological Survey of New Zealand. Thirteenth Annual Report on the Colonial Museum and Laboratory, together with a list of the donations and deposits during 1877-78. Jas. Hector, M.D., F.R.S., director. 8vo, pp. 40. Wellington, New Zealand, 1878. From the directors.

The Utica Slate and related formations. Fossils of the Utica Slate and Metamorphosis of *Triarthrus Becki*. By C. D. Walcott. (Printed in advance of Vol. x Trans. Albany Institute, June, 1879.) 8vo, pp. 38, pls. II. Albany, 1879. From the author.

The Local Geology of Davenport [Iowa]. By Rev. W. H. Barris. 8vo, pp. 261-288, pls. x, xi. (Ext. Dav. Acad. Nat. Sci., Vol. II, Sept., 1878.) From the author.

West of the Mississippi, Geological History. Lecture delivered in the Hall of Washington University, St. Louis, April 2, 1879. By R. S. Elliott. 8vo, pp. 16. St. Louis, 1879. From the author.

Proceedings of the Academy of Natural Sciences of Philadelphia. Part I.—January, February and March, 1879. 8vo, pp. 136, pls. XII. From the society.

Descriptions of three new species of Calceolidæ from the Upper Silurian rocks of Kentucky. By Victor W. Lyon. (Ext. Proc. Acad. Nat. Sci., Philadelphia, 1879.) 8vo, pp. 43-46. From the author.

Proceedings of the American Philosophical Society, held at Philadelphia, for promoting useful knowledge, Vol. XVIII, No. 102, January to June, 1879. 8vo, pp. 120. Philadelphia, 1879. From the society.

The Naturalists' Leisure Hour and Monthly Bulletin. Edited by A. E. Foote. Vol. 3, Nos. 6 and 7 (June and July, 1879). 8vo. From the editor.

International Fishery Exhibition to be held at Berlin in April, 1880. Prospectus. 4to pp. 3. Berlin, 1879. From the honorary president, Dr. Friedenthal, Prussian minister of agriculture.

The Oölogist: a monthly journal devoted to the study of Birds and their Eggs. 8vo. Vol. IV, No. 9, April, 1879. Utica, N. Y. From the editor.

Hand List of Mollusca in the Indian Museum, Calcutta. By Geoffroy Nevill, C.M.Z.S., &c. Part I. Gastropoda Pulmonata and Prosobranchia—Neurobranchia. 8va, pp. 338. Calcutta, 1878. Printed by order of the trustees. From the superintendent of the museum.

Bolletino Scientifico redatto dai dottori de Giovanni Achille, Maggi Leopoldo e Zoja Giovanni, Professori all' Università di Pavia. Anno I, Num. 1. 8vo, pp. 16. Milan, 1879. From the editors.